

# MDR-NC6

## SERVICE MANUAL

*Tourist Model*

Ver 1.0 2004.10



### SPECIFICATIONS

#### General

##### Type

Open air, dynamic

##### Driver units

38 mm, dome type

##### Power handling capacity

100mW

##### Impedance

20  $\Omega$  at 1 kHz (when the power is on)

65  $\Omega$  at 1 kHz (when the power is off)

##### Sensitivity

106 dB/mW (when the power is on)

104 dB/mW (when the power is off)

##### Frequency response

30 – 15,000 Hz

##### Frequency range of active noise attenuation

40 – 1,500 Hz, more than 10 dB at 300 Hz

##### Cord

1.5m (59  $\frac{1}{8}$  inches)

##### Plug

Gold plated L-shaped stereo mini plug

##### Power source

DC 1.5 V, 1  $\times$  R03 (size AAA) battery

##### Mass

Approx. 150 g (5.3 oz) including battery

#### Battery life

| Battery                                         | Approx. hours* <sup>1</sup> |
|-------------------------------------------------|-----------------------------|
| Sony alkaline LR03 (size AAA)/AM4(N) battery    | 30 hours* <sup>2</sup>      |
| Sony manganese R03/UM-4 (NU) (size AAA) battery | 15 hours* <sup>2</sup>      |

\*<sup>1</sup> 1 kHz, 1 mW + 1 mW input

\*<sup>2</sup> Time stated above may vary, depending on the temperature or conditions of use.

#### When to replace the battery

Replace the battery with a new one when the POWER indicator dims. The noise canceling feature may not work correctly if battery power is low.

#### Supplied accessories

Plug adaptor for in-flight use\* (single/dual) (1)

Carrying case (1)

Operating Instructions (1)

\* May not be compatible with some in-flight music services.

Design and specifications are subject to change without notice.

#### Note on chip component replacement

- Never reuse a disconnected chip component
- Notice that the minus side of a tantalum capacitor may be damaged by heat

## NOISE CANCELING HEAD PHONES

MDR-NC6

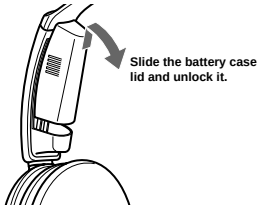
This section is extracted from instruction manual.

Features

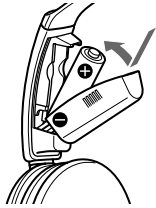
- Noise canceling headphones reduce ambient noise, and provide a quieter environment to enhance audio entertainment. Ambient sound is synthesized with an anti-sound signal produced by the noise canceling circuit, and reduced. (Over 10 dB is reduced at 300 Hz.)
- Slim swivel folding style for smart carrying and easy strage.
- Neodymium magnets are used to deliver powerful sound.
- Operates as passive headphones when noise canceling circuit is not activated.
- Plug adaptor is supplied to connect directly to stereo or dual jack of in-flight music services.

Installing a battery

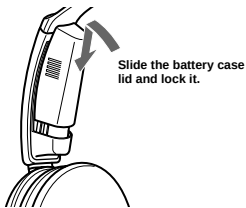
- 1 Open the lid of the battery case on the right inner side of the headphone.



- 2 Insert one R03 (size AAA) battery by matching the + and - on the battery to the + and - in the battery case.



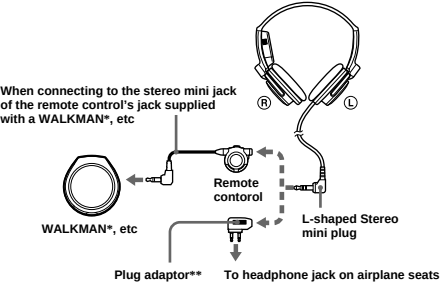
- 3 Close the lid.



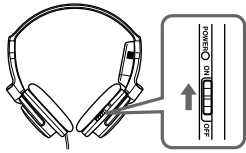
SECTION 1  
GENERAL

Listening to music

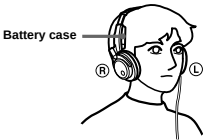
- 1 Connect the headphones to the AV equipment.



- \* WALKMAN is a trademark of Sony Corporation.  
\*\*May not be compatible with some in-flight music services.
- 2 Turn on the power of the headphones.  
The POWER indicator lights in red. When the power is turned on, ambient noise is reduced, and you can listen to music more clearly at a lower volume.



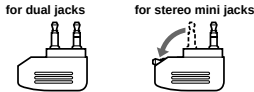
- 3 Put on the headphones so that the ear pads cover your ears.



- 4 Turn on the power of the AV equipment.

Notes on using on the airplane

- The supplied plug adaptor can be connected to dual and stereo mini jacks.

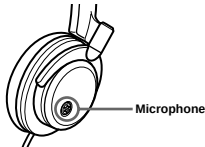


- Do not use the headphones when use of electronic equipment is prohibited or when use of personal headphones for in-flight music services is prohibited.
- If you have any questions or problems concerning the system that are not covered in this manual, please consult the nearest Sony dealer.

After listening to music

Turn off the power of the headphones.

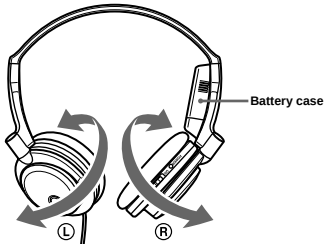
- Notes**
- The noise canceling function is only effective for noise in the low frequency band. Although noise is reduced, it is not canceled completely.
  - Do not cover the microphone of the headphones with your hands. The noise canceling function may not work properly.
  - If you cover the microphone of the headphones with your hands, howling may occur. In this case, move your hands away from the microphone.



- The noise canceling effect may vary depending on how you wear the headphones.
- You can use the headphones without turning on the power. In this case, the noise canceling function is not active, and the headphones operate as passive headphones.

Folding the headphones

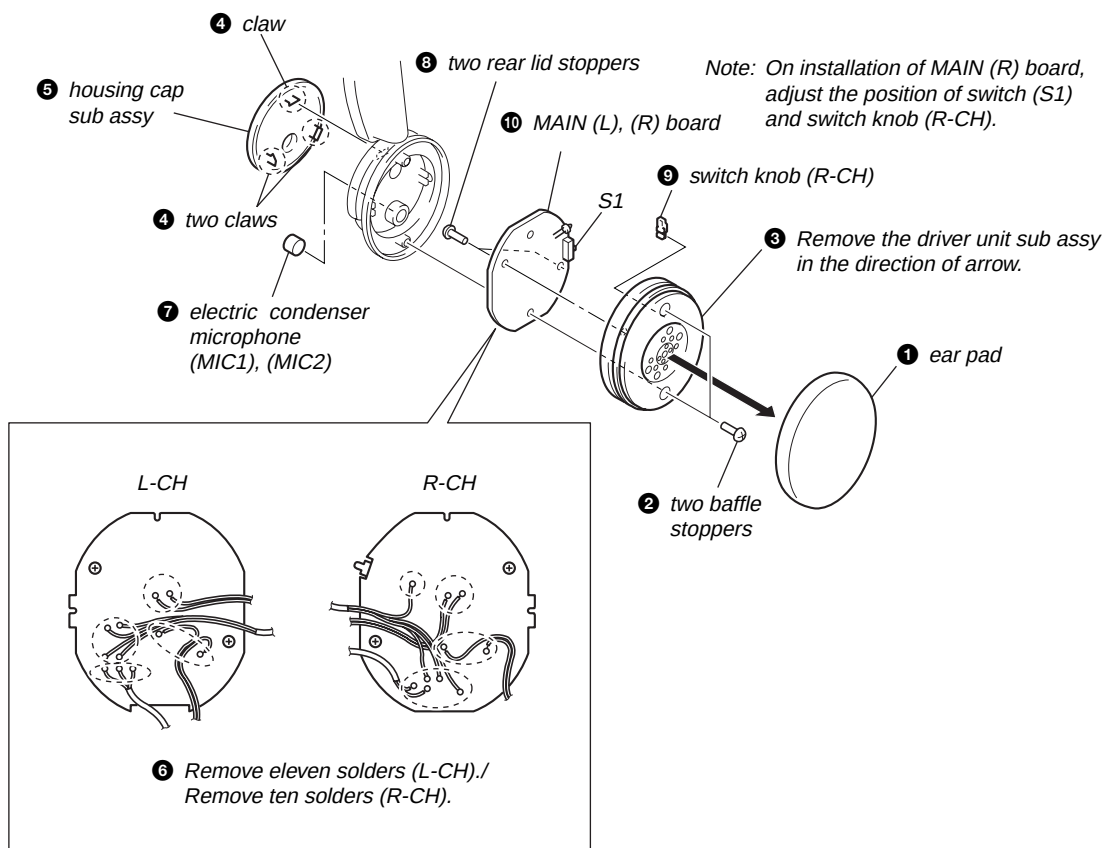
The driver units rotate to make them flat for easy storage in the carrying case (supplied) or a seat pocket.



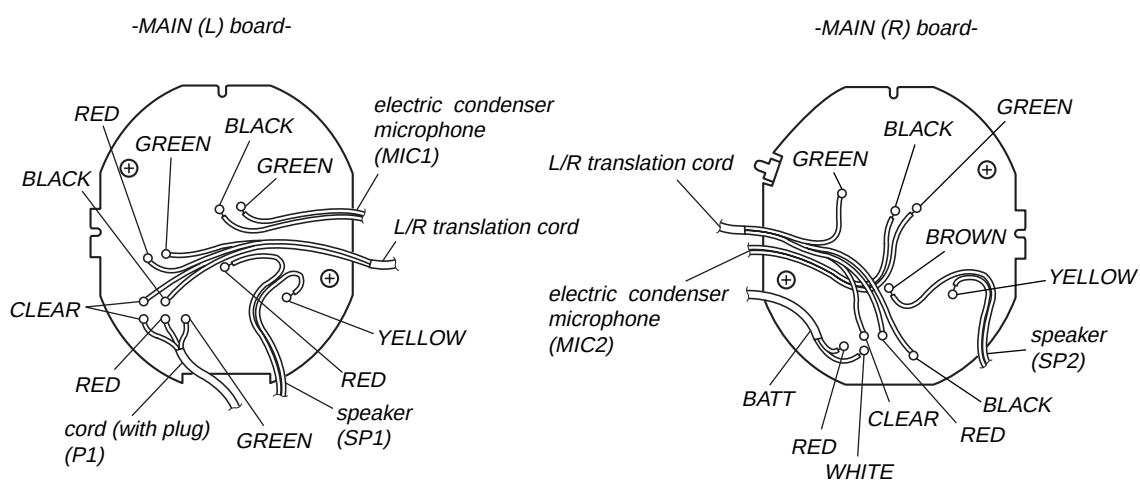
## SECTION 2 DISASSEMBLY

**Note:** Follow the disassembly procedure in the numerical order given.

### 2-1. MAIN (L), (R) BOARD



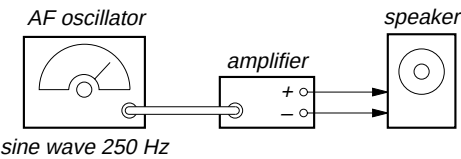
### POSITION OF LEAD WIRES



SECTION 3  
ELECTRICAL ADJUSTMENT

NOISE CANCELING AMOUNT ADJUSTMENT

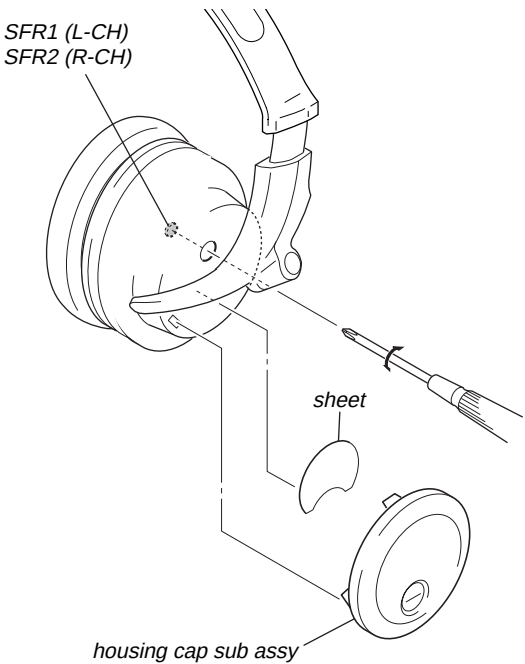
Preparation:



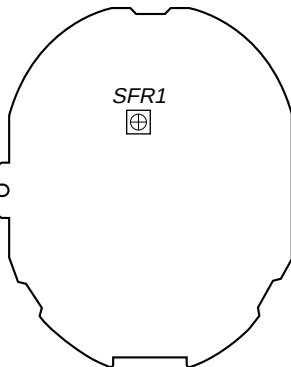
Procedure:

1. Generate a sine wave of specific frequency (250 Hz) from a AF oscillator, and output it from a speaker placed at the forward position,
2. Remove the housing cap sub assy and sheet.
3. Mount this set on the head, and turn on the POWER switch.
4. With this set mounted, rotate the SFR1 (Lch) and SFR2 (Rch) so that the volume from the speaker becomes lowest aurally. (See below figure)

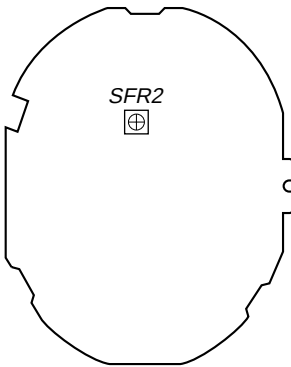
Adjustment Location:



–MAIN (L) Board–



–MAIN (R) Board–



SECTION 4  
DIAGRAMS

• Note for Printed Wiring Boards and Schematic Diagrams

Note on Schematic Diagram:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
- : panel designation.
- : B+ Line.
- : adjustment for repair.
- Power voltage is dc 1.5 V and fed with regulated dc power supply from battery terminal.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : Audio signal (power off)
  - : Audio signal (power on)

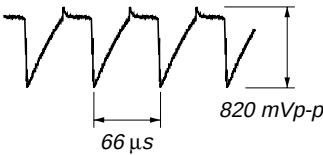
Note on Printed Wiring Boards:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : Pattern from the side which enables seeing.

• Waveforms

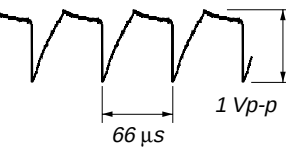
– MAIN (R) Board –

① Q15 (Base-1)



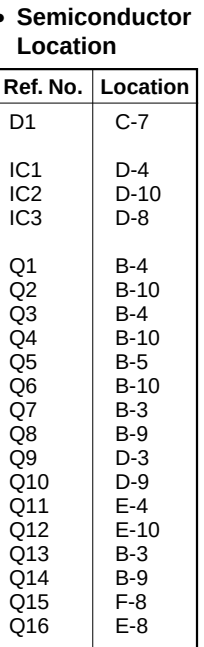
500 mV/DIV, 50  $\mu\text{s}$ /DIV

② Q15 (Base-2)

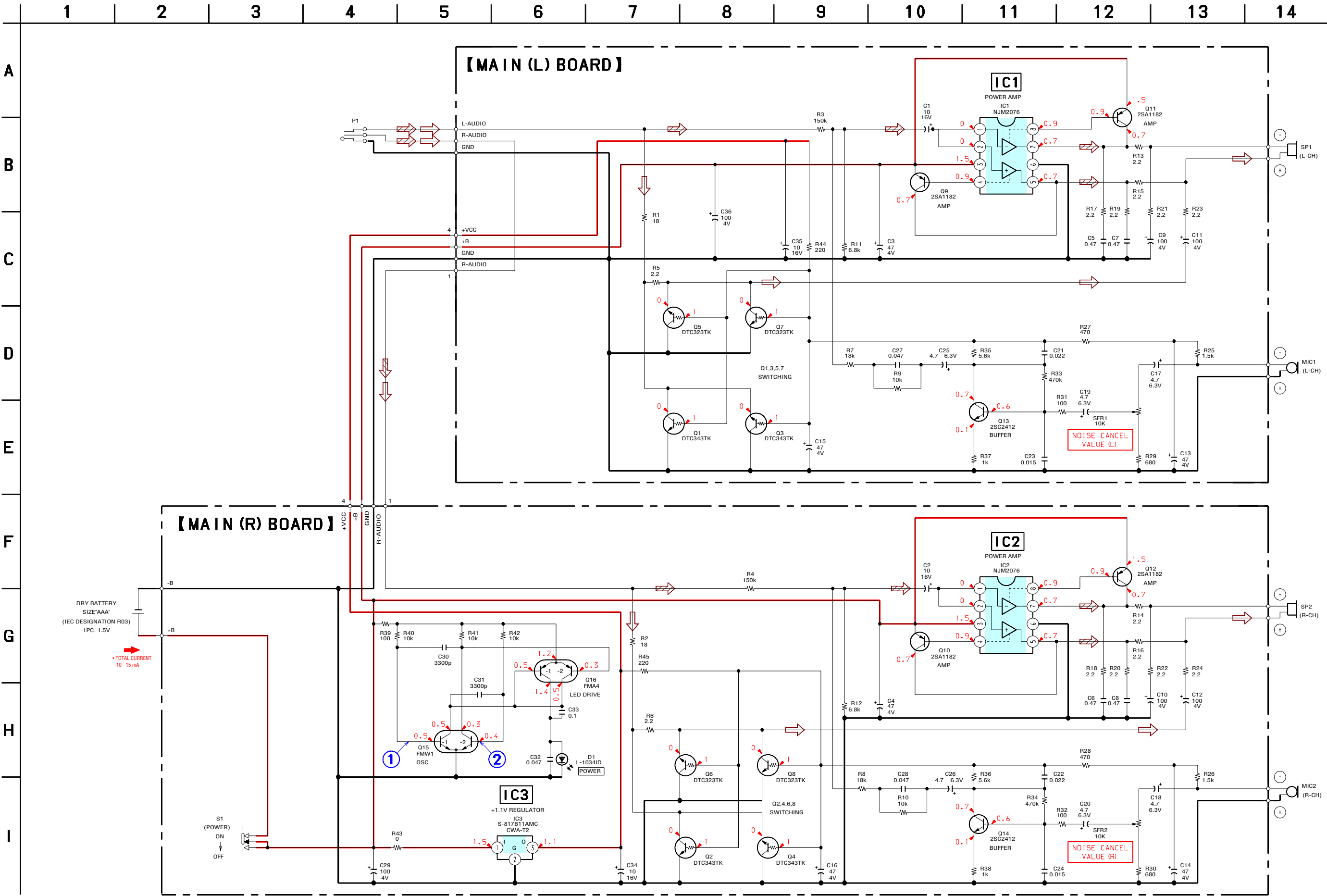


500 mV/DIV, 50  $\mu\text{s}$ /DIV

5 5



4-2. SCHEMATIC DIAGRAM BOARD • See page 4 for Waveforms





SECTION 6

ELECTRICAL PARTS LIST

- NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
  - XX and -X mean standardized parts, so they may have some difference from the original one.
  - RESISTORS  
All resistors are in ohms.  
METAL: Metal-film resistor.  
METAL OXIDE: Metal oxide-film resistor.  
F: nonflammable

- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA... :  $\mu$ A...      uPA... :  $\mu$ PA...  
uPB... :  $\mu$ PB...    uPC... :  $\mu$ PC...  
uPD... :  $\mu$ PD...
- CAPACITORS  
uF:  $\mu$ F
- COILS  
uH:  $\mu$ H

| Ref. No. | Part No.     | Description              | Remark            |     |       |  |
|----------|--------------|--------------------------|-------------------|-----|-------|--|
|          | A-1066-608-A | MAIN (L) BOARD, COMPLETE |                   |     |       |  |
|          |              | *****                    |                   |     |       |  |
|          |              | < CAPACITOR >            |                   |     |       |  |
| C1       | 1-104-913-11 | TANTALUM CHIP            | 10uF              | 20% | 16V   |  |
| C3       | 1-113-688-11 | ELECT CHIP               | 47uF              | 20% | 4V    |  |
| C5       | 1-107-823-11 | CERAMIC CHIP             | 0.47uF            | 10% | 16V   |  |
| C7       | 1-107-823-11 | CERAMIC CHIP             | 0.47uF            | 10% | 16V   |  |
| C9       | 1-113-689-11 | ELECT CHIP               | 100uF             | 20% | 4V    |  |
| C11      | 1-113-689-11 | ELECT CHIP               | 100uF             | 20% | 4V    |  |
| C13      | 1-113-688-11 | ELECT CHIP               | 47uF              | 20% | 4V    |  |
| C15      | 1-113-688-11 | ELECT CHIP               | 47uF              | 20% | 4V    |  |
| C17      | 1-135-210-11 | TANTALUM CHIP            | 4.7uF             | 20% | 10V   |  |
| C19      | 1-135-210-11 | TANTALUM CHIP            | 4.7uF             | 20% | 10V   |  |
| C21      | 1-164-227-11 | CERAMIC CHIP             | 0.022uF           | 10% | 25V   |  |
| C23      | 1-164-245-11 | CERAMIC CHIP             | 0.015uF           | 10% | 25V   |  |
| C25      | 1-135-210-11 | TANTALUM CHIP            | 4.7uF             | 20% | 10V   |  |
| C27      | 1-165-176-11 | CERAMIC CHIP             | 0.047uF           | 10% | 16V   |  |
| C35      | 1-104-913-11 | TANTALUM CHIP            | 10uF              | 20% | 16V   |  |
| C36      | 1-113-689-11 | ELECT CHIP               | 100uF             | 20% | 4V    |  |
|          |              | < IC >                   |                   |     |       |  |
| IC1      | 8-759-289-74 | IC NJM2076M (TE2)        |                   |     |       |  |
|          |              | < SHORT >                |                   |     |       |  |
| JR001    | 1-216-295-00 | SHORT CHIP               | 0                 |     |       |  |
| JR003    | 1-216-295-00 | SHORT CHIP               | 0                 |     |       |  |
|          |              | < TRANSISTOR >           |                   |     |       |  |
| Q1       | 8-729-920-31 | TRANSISTOR               | DTC343TK          |     |       |  |
| Q3       | 8-729-920-31 | TRANSISTOR               | DTC343TK          |     |       |  |
| Q5       | 8-729-015-39 | TRANSISTOR               | DTC323TK          |     |       |  |
| Q7       | 8-729-015-39 | TRANSISTOR               | DTC323TK          |     |       |  |
| Q9       | 8-729-030-31 | TRANSISTOR               | 2SA1182-0 (TE85R) |     |       |  |
| Q11      | 8-729-030-31 | TRANSISTOR               | 2SA1182-0 (TE85R) |     |       |  |
| Q13      | 8-729-901-81 | TRANSISTOR               | 2SC2412K-T-146-R  |     |       |  |
|          |              | < RESISTOR >             |                   |     |       |  |
| R1       | 1-216-800-11 | METAL CHIP               | 18                | 5%  | 1/10W |  |
| R3       | 1-216-847-11 | METAL CHIP               | 150K              | 5%  | 1/10W |  |
| R5       | 1-216-789-11 | METAL CHIP               | 2.2               | 5%  | 1/10W |  |
| R7       | 1-216-836-11 | METAL CHIP               | 18K               | 5%  | 1/10W |  |
| R9       | 1-216-833-11 | METAL CHIP               | 10K               | 5%  | 1/10W |  |

| Ref. No. | Part No.     | Description                       | Remark   |      |       |  |
|----------|--------------|-----------------------------------|----------|------|-------|--|
| R11      | 1-218-867-11 | METAL CHIP                        | 6.8K     | 0.5% | 1/10W |  |
| R13      | 1-216-789-11 | METAL CHIP                        | 2.2      | 5%   | 1/10W |  |
| R15      | 1-216-789-11 | METAL CHIP                        | 2.2      | 5%   | 1/10W |  |
| R17      | 1-216-789-11 | METAL CHIP                        | 2.2      | 5%   | 1/10W |  |
| R19      | 1-216-789-11 | METAL CHIP                        | 2.2      | 5%   | 1/10W |  |
| R21      | 1-216-789-11 | METAL CHIP                        | 2.2      | 5%   | 1/10W |  |
| R23      | 1-216-789-11 | METAL CHIP                        | 2.2      | 5%   | 1/10W |  |
| R25      | 1-216-823-11 | METAL CHIP                        | 1.5K     | 5%   | 1/10W |  |
| R27      | 1-216-817-11 | METAL CHIP                        | 470      | 5%   | 1/10W |  |
| R29      | 1-216-819-11 | METAL CHIP                        | 680      | 5%   | 1/10W |  |
| R31      | 1-216-809-11 | METAL CHIP                        | 100      | 5%   | 1/10W |  |
| R33      | 1-216-853-11 | METAL CHIP                        | 470K     | 5%   | 1/10W |  |
| R35      | 1-216-830-11 | METAL CHIP                        | 5.6K     | 5%   | 1/10W |  |
| R37      | 1-216-821-11 | METAL CHIP                        | 1K       | 5%   | 1/10W |  |
| R44      | 1-216-813-11 | METAL CHIP                        | 220      | 5%   | 1/10W |  |
|          |              | < VARIABLE RESISTOR >             |          |      |       |  |
| SFR1     | 1-238-090-11 | RES, ADJ CERMET                   |          | 10K  |       |  |
|          |              | *****                             |          |      |       |  |
|          | A-1066-609-A | MAIN (R) BOARD, COMPLETE<br>***** |          |      |       |  |
|          |              | < CAPACITOR >                     |          |      |       |  |
| C2       | 1-104-913-11 | TANTALUM CHIP                     | 10uF     | 20%  | 16V   |  |
| C4       | 1-113-688-11 | ELECT CHIP                        | 47uF     | 20%  | 4V    |  |
| C6       | 1-107-823-11 | CERAMIC CHIP                      | 0.47uF   | 10%  | 16V   |  |
| C8       | 1-107-823-11 | CERAMIC CHIP                      | 0.47uF   | 10%  | 16V   |  |
| C10      | 1-113-689-11 | ELECT CHIP                        | 100uF    | 20%  | 4V    |  |
| C12      | 1-113-689-11 | ELECT CHIP                        | 100uF    | 20%  | 4V    |  |
| C14      | 1-113-688-11 | ELECT CHIP                        | 47uF     | 20%  | 4V    |  |
| C16      | 1-113-688-11 | ELECT CHIP                        | 47uF     | 20%  | 4V    |  |
| C18      | 1-135-210-11 | TANTALUM CHIP                     | 4.7uF    | 20%  | 10V   |  |
| C20      | 1-135-210-11 | TANTALUM CHIP                     | 4.7uF    | 20%  | 10V   |  |
| C22      | 1-164-227-11 | CERAMIC CHIP                      | 0.022uF  | 10%  | 25V   |  |
| C24      | 1-164-245-11 | CERAMIC CHIP                      | 0.015uF  | 10%  | 25V   |  |
| C26      | 1-135-210-11 | TANTALUM CHIP                     | 4.7uF    | 20%  | 10V   |  |
| C28      | 1-165-176-11 | CERAMIC CHIP                      | 0.047uF  | 10%  | 16V   |  |
| C29      | 1-113-689-11 | ELECT CHIP                        | 100uF    | 20%  | 4V    |  |
| C30      | 1-162-967-11 | CERAMIC CHIP                      | 0.0033uF | 10%  | 50V   |  |
| C31      | 1-162-967-11 | CERAMIC CHIP                      | 0.0033uF | 10%  | 50V   |  |
| C32      | 1-165-176-11 | CERAMIC CHIP                      | 0.047uF  | 10%  | 16V   |  |
| C33      | 1-164-156-11 | CERAMIC CHIP                      | 0.1uF    |      | 25V   |  |
| C34      | 1-104-913-11 | TANTALUM CHIP                     | 10uF     | 20%  | 16V   |  |

| Ref. No. | Part No.       | Description           | Remark            | Ref. No.     | Part No.                                 | Description                            | Remark                 |
|----------|----------------|-----------------------|-------------------|--------------|------------------------------------------|----------------------------------------|------------------------|
|          |                | < LED >               |                   |              |                                          | MISCELLANEOUS                          |                        |
|          |                |                       |                   |              |                                          | *****                                  |                        |
| D1       | 8-719-060-79   | LED L-1034ID (POWER)  |                   | 3            | X-2024-979-1                             | SUB (R) ASSY, DRIVER UNIT              |                        |
|          |                | < IC >                |                   |              |                                          |                                        | (including SP2 (R-CH)) |
|          |                |                       |                   | 11           | X-2024-980-1                             | SUB (L) ASSY, DRIVER UNIT              |                        |
|          |                |                       |                   |              |                                          |                                        | (including SP1 (L-CH)) |
| IC2      | 8-759-289-74   | IC NJM2076M (TE2)     |                   | MIC1         | 1-542-260-61                             | MICROPHONE, ELECTRET, CONDENSER (L-CH) |                        |
| IC3      | 6-704-289-01   | IC S-817B11AMC-CWAT2G |                   | MIC2         | 1-542-260-61                             | MICROPHONE, ELECTRET, CONDENSER (R-CH) |                        |
|          |                | < SHORT >             |                   | P1           | 1-829-963-11                             | CORD (WITH PLUG)                       |                        |
|          |                |                       |                   |              |                                          | *****                                  |                        |
| JR002    | 1-216-295-00   | SHORT CHIP            | 0                 |              |                                          | ACCESSORIES                            |                        |
| JR004    | 1-216-295-00   | SHORT CHIP            | 0                 |              |                                          | *****                                  |                        |
|          |                | < TRANSISTOR >        |                   |              |                                          |                                        |                        |
|          |                |                       |                   | 1-473-686-11 | ADAPTOR, PLUG (DUAL) (for in flight use) |                                        |                        |
| Q2       | 8-729-920-31   | TRANSISTOR            | DTC343TK          | 2-108-830-01 | POUCH, CARRYING                          |                                        |                        |
| Q4       | 8-729-920-31   | TRANSISTOR            | DTC343TK          | 2-149-995-01 | MANUAL, INSTRUCTION (JAPANESE)           |                                        |                        |
| Q6       | 8-729-015-39   | TRANSISTOR            | DTC323TK          | 2-149-995-11 | MANUAL, INSTRUCTION                      |                                        |                        |
| Q8       | 8-729-015-39   | TRANSISTOR            | DTC323TK          |              |                                          | (ENGLISH, FRENCH, SPANISH)             |                        |
| Q10      | 8-729-030-31   | TRANSISTOR            | 2SA1182-0 (TE85R) |              |                                          |                                        |                        |
|          |                |                       |                   |              |                                          |                                        |                        |
| Q12      | 8-729-030-31   | TRANSISTOR            | 2SA1182-0 (TE85R) |              |                                          |                                        |                        |
| Q14      | 8-729-901-81   | TRANSISTOR            | 2SC2412K-T-146-R  |              |                                          |                                        |                        |
| Q15      | 8-729-903-10   | TRANSISTOR            | FMW1              |              |                                          |                                        |                        |
| Q16      | 8-729-902-90   | TRANSISTOR            | FMA4              |              |                                          |                                        |                        |
|          |                | < RESISTOR >          |                   |              |                                          |                                        |                        |
|          |                |                       |                   |              |                                          |                                        |                        |
| R2       | 1-216-800-11   | METAL CHIP            | 18                | 5%           | 1/10W                                    |                                        |                        |
| R4       | 1-216-847-11   | METAL CHIP            | 150K              | 5%           | 1/10W                                    |                                        |                        |
| R6       | 1-216-789-11   | METAL CHIP            | 2.2               | 5%           | 1/10W                                    |                                        |                        |
| R8       | 1-216-836-11   | METAL CHIP            | 18K               | 5%           | 1/10W                                    |                                        |                        |
| R10      | 1-216-833-11   | METAL CHIP            | 10K               | 5%           | 1/10W                                    |                                        |                        |
|          |                |                       |                   |              |                                          |                                        |                        |
| R12      | 1-218-867-11   | METAL CHIP            | 6.8K              | 0.5%         | 1/10W                                    |                                        |                        |
| R14      | 1-216-789-11   | METAL CHIP            | 2.2               | 5%           | 1/10W                                    |                                        |                        |
| R16      | 1-216-789-11   | METAL CHIP            | 2.2               | 5%           | 1/10W                                    |                                        |                        |
| R18      | 1-216-789-11   | METAL CHIP            | 2.2               | 5%           | 1/10W                                    |                                        |                        |
| R20      | 1-216-789-11   | METAL CHIP            | 2.2               | 5%           | 1/10W                                    |                                        |                        |
|          |                |                       |                   |              |                                          |                                        |                        |
| R22      | 1-216-789-11   | METAL CHIP            | 2.2               | 5%           | 1/10W                                    |                                        |                        |
| R24      | 1-216-789-11   | METAL CHIP            | 2.2               | 5%           | 1/10W                                    |                                        |                        |
| R26      | 1-216-823-11   | METAL CHIP            | 1.5K              | 5%           | 1/10W                                    |                                        |                        |
| R28      | 1-216-817-11   | METAL CHIP            | 470               | 5%           | 1/10W                                    |                                        |                        |
| R30      | 1-216-819-11   | METAL CHIP            | 680               | 5%           | 1/10W                                    |                                        |                        |
|          |                |                       |                   |              |                                          |                                        |                        |
| R32      | 1-216-809-11   | METAL CHIP            | 100               | 5%           | 1/10W                                    |                                        |                        |
| R34      | 1-216-853-11   | METAL CHIP            | 470K              | 5%           | 1/10W                                    |                                        |                        |
| R36      | 1-216-830-11   | METAL CHIP            | 5.6K              | 5%           | 1/10W                                    |                                        |                        |
| R38      | 1-216-821-11   | METAL CHIP            | 1K                | 5%           | 1/10W                                    |                                        |                        |
| R39      | 1-216-816-11   | METAL CHIP            | 390               | 5%           | 1/10W                                    |                                        |                        |
|          |                |                       |                   |              |                                          |                                        |                        |
| R40      | 1-216-833-11   | METAL CHIP            | 10K               | 5%           | 1/10W                                    |                                        |                        |
| R41      | 1-216-833-11   | METAL CHIP            | 10K               | 5%           | 1/10W                                    |                                        |                        |
| R42      | 1-216-833-11   | METAL CHIP            | 10K               | 5%           | 1/10W                                    |                                        |                        |
| R43      | 1-216-295-00   | SHORT CHIP            | 0                 |              |                                          |                                        |                        |
| R45      | 1-216-813-11   | METAL CHIP            | 220               | 5%           | 1/10W                                    |                                        |                        |
|          |                | < SWITCH >            |                   |              |                                          |                                        |                        |
|          |                |                       |                   |              |                                          |                                        |                        |
| S1       | (Not supplied) | SWITCH, SLIDE (POWER) |                   |              |                                          |                                        |                        |
|          |                | < VARIABLE RESISTOR > |                   |              |                                          |                                        |                        |
|          |                |                       |                   |              |                                          |                                        |                        |
| SFR2     | 1-238-090-11   | RES, ADJ CERMET       | 10K               |              |                                          |                                        |                        |
|          |                | *****                 |                   |              |                                          |                                        |                        |

## REVISION HISTORY

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# MDR-NC6

## SERVICE MANUAL

Ver. 1.1 2005.02

*US Model  
Canadian Model  
AEP Model*

- The following parts are available for service parts of this model.

### PARTS LIST

| <u>Part No.</u> | <u>Description</u>                                                                                                                              | <u>Remark</u> |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 1-473-686-11    | ADAPTOR, PLUG (DUAL)                                                                                                                            |               |
| 2-108-830-01    | POUCH, CARRYING (US)                                                                                                                            |               |
| 2-148-074-01    | PAD, EAR                                                                                                                                        |               |
| 2-149-995-11    | MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH)                                                                                                  |               |
|                 | (US)                                                                                                                                            |               |
| 2-589-850-01    | MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH,<br>GERMAN, ITALIAN, PORTUGUESE, HUNGARIAN, POLISH,<br>CZECH, RUSSIAN, SLOVAKIAN) (Canadian, AEP) |               |

STEREO HEADPHONES

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